

MAGNETICALLY ACTUATED MICRO-ELECTRO-MECHANICAL APPARATUS AND METHOD OF MANUFACTURE**Abstract of the Disclosure**

An array of magnetically actuated MEMS mirror devices is provided
5 having stationary magnets configured to provide strong magnetic fields in the plane of the mirrors without any magnets or magnet-system components in the plane of the mirrors. Also, a magnetically actuated mirror device is provided that includes an improved actuation coil configuration that provides greater torque during mirror actuation. In addition, a mechanism is provided to detect
10 the angular deflection of a moveable mirror. Also, an improved process is provided for manufacturing MEMS mirror devices.